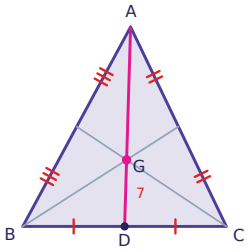
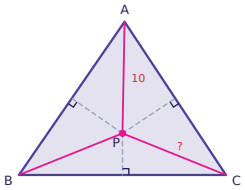
Task card 1 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and GD = 7. Find AD.



Task card 2 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC and PA = 10. Find PC.

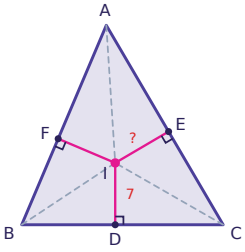


Task card 3 Centroid, Circumcenter & Incenter

Which point of concurrency is the same distance from all three sides of a triangle: centroid, circumcenter, incenter, or orthocenter?

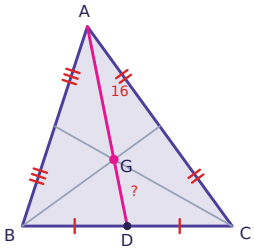
Task card 4 Centroid, Circumcenter & Incenter

I is the incenter of △ABC and ID = 7. Find IE.



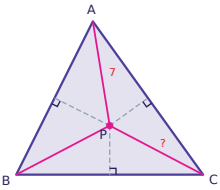
Task card 5 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and AG = 16. Find GD.



Task card 6 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC and PA = 7. Find PC.

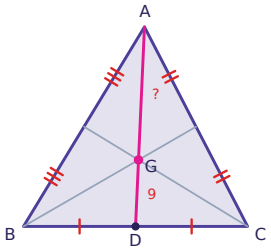


Task card 7 Centroid, Circumcenter & Incenter

The altitudes of a triangle meet at which point: centroid, circumcenter, incenter, or orthocenter?

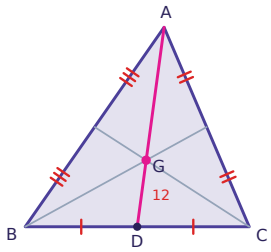
Task card 8 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and GD = 9. Find AG.



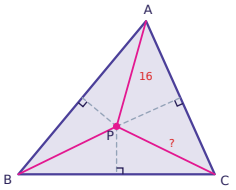
Task card 9 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and GD = 12. Find AD.



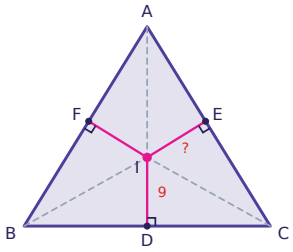
Task card 10 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC and PA = 16. Find PC.



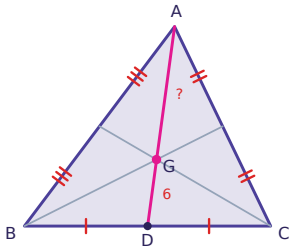
Task card 11 Centroid, Circumcenter & Incenter

I is the incenter of △ABC and ID = 9. Find IE.



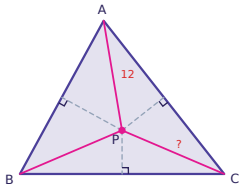
Task card 12 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and GD = 6. Find AG.



Task card 13 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC and PA = 12. Find PC.

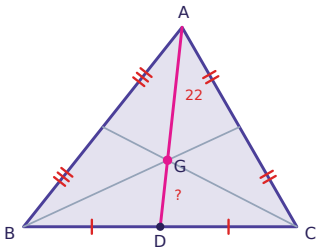


Task card 14 Centroid, Circumcenter & Incenter

The medians of a triangle meet at which point: centroid, circumcenter, incenter, or orthocenter?

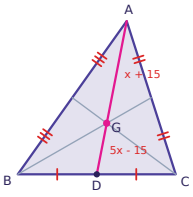
Task card 15 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and AG = 22. Find GD.



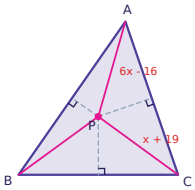
Task card 16 Centroid, Circumcenter & Incenter

G is the centroid of △ABC. AG = x + 15 and GD = 5x - 15. Find x.



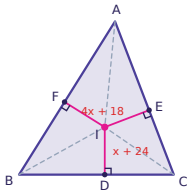
Task card 17 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC. PA = 6x - 16 and PC = x + 19. Find PB.



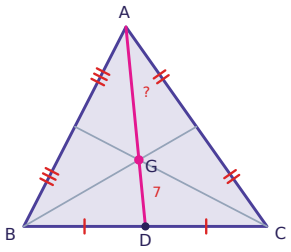
Task card 18 Centroid, Circumcenter & Incenter

I is the incenter of △ABC. ID = x + 24 and IE = 4x + 18. Find IF.



Task card 19 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and GD = 7. Find AG.

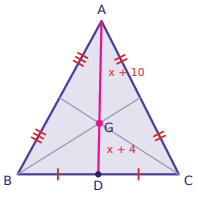


Task card 20 Centroid, Circumcenter & Incenter

Which point of concurrency is the balance point (center of gravity) of a triangle: centroid, circumcenter, incenter, or orthocenter?

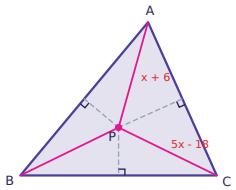
Task card 21 Centroid, Circumcenter & Incenter

G is the centroid of △ABC. AG = x + 10 and GD = x + 4. Find x.



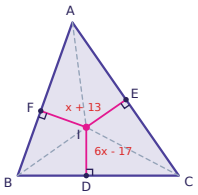
Task card 22 Centroid, Circumcenter & Incenter

P is the circumcenter of △ABC. PA = x + 6 and PC = 5x - 18. Find PB.



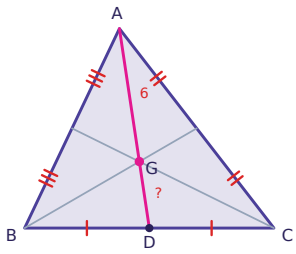
Task card 23 Centroid, Circumcenter & Incenter

I is the incenter of △ABC. ID = 6x - 17 and IE = x + 13. Find IF.



Task card 24 Centroid, Circumcenter & Incenter

G is the centroid of △ABC and AG = 6. Find GD.



Centroid, Circumcenter & Incenter Task Cards

Recording sheet · Grade 10 · Use the property of the point of concurrency named in each problem.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Centroid, Circumcenter & Incenter Task Cards: Answer Key

Grade 10 · Easy

The answers online

1. 21	**2.** 10	**3.** incenter
4. 7	**5.** 8	**6.** 7
7. orthocenter	**8.** 18	**9.** 36
10. 16	**11.** 9	**12.** 12
13. 12	**14.** centroid	**15.** 11
16. 5	**17.** 26	**18.** 26
19. 14	**20.** centroid	**21.** 2
22. 12	**23.** 19	**24.** 3