Task card 1 Partial Fraction Decomposition of...

$$\frac{-8x + 51}{x^2 - 13x + 42} = \frac{A}{x - 7} + \frac{B}{x - 6}$$. Find A and B.

Task card 2 Partial Fraction Decomposition of...

$$\frac{4x - 35}{x^2 - 7x} = \frac{A}{x} + \frac{B}{x - 7}.$$

Find A and B.

Task card 3 Partial Fraction Decomposition of...

$$\frac{12x + 30}{x^2 + 5x - 6} = \frac{A}{x + 6} + \frac{B}{x - 1}.$$

Find A and B.

Task card 4 Partial Fraction Decomposition of...

$$\frac{-11x + 10}{2x^2 - 5x + 2} = \frac{A}{2x - 1} + \frac{B}{x - 2}$$. Find A and B.

Task card 5 Partial Fraction Decomposition of...

$$\frac{9x - 33}{x^2 - 7x + 12} = \frac{A}{x - 4} + \frac{B}{x - 3}.$$

Find A and B.

Task card 6 Partial Fraction Decomposition of...

$$\frac{-7x - 12}{x^2 + 2x} = \frac{A}{x} + \frac{B}{x + 2}$$. Find A and B.

Task card 7 Partial Fraction Decomposition of...

$$\frac{4x - 29}{x^2 - x - 20} = \frac{A}{x - 5} + \frac{B}{x + 4}.$$

Find A and B.

Task card 8 Partial Fraction Decomposition of...

$$\frac{10x - 27}{2x^2 - 11x + 15} = \frac{A}{2x - 5} + \frac{B}{x - 3}.$$ Find A and B.

Task card 9 Partial Fraction Decomposition of...

$$\frac{x + 6}{x^2 + 3x + 2} = \frac{A}{x + 1} + \frac{B}{x + 2}.$$ Find A and B.

Task card 10 Partial Fraction Decomposition of...

$$\frac{13x - 34}{3x^2 - 23x + 14} = \frac{A}{3x - 2} + \frac{B}{x - 7}.$$ Find A and B.

Task card 11 Partial Fraction Decomposition of...

$$\frac{-x^2 - 25x + 170}{x^3 - 4x^2 - 25x + 100} = \frac{A}{x + 5} + \frac{B}{x - 4} + \frac{C}{x - 5}.$$ Find A, B and C.

Task card 12 Partial Fraction Decomposition of...

$$\frac{10x - 58}{x^2 - 10x + 21} = \frac{A}{x - 7} + \frac{B}{x - 3}.$$ Find A and B.

Task card 13 Partial Fraction Decomposition of...

$$\frac{-11x + 22}{2x^2 + 9x - 5} = \frac{A}{2x - 1} + \frac{B}{x + 5}$$. Find A and B.

Task card 14 Partial Fraction Decomposition of...

$$\frac{-x + 20}{x^2 - 4x} = \frac{A}{x} + \frac{B}{x - 4}.$$

Find A and B.

Task card 15 Partial Fraction Decomposition of...

$$\frac{-3x - 19}{x^2 + 6x + 5} = \frac{A}{x + 1} + \frac{B}{x + 5}$$. Find A and B.

Task card 16 Partial Fraction Decomposition of...

$$\frac{-10x - 18}{2x^2 + 7x + 6} = \frac{A}{2x + 3} + \frac{B}{x + 2}$$. Find A and B.

Task card 17 Partial Fraction Decomposition of...

$$\frac{14x - 10}{x^2 - 25} = \frac{A}{x + 5} + \frac{B}{x - 5}.$$

Find A and B.

Task card 18 Partial Fraction Decomposition of...

$$\frac{-10x + 48}{2x^2 - 17x + 21} = \frac{A}{2x - 3} + \frac{B}{x - 7}$$. Find A and B.

Task card 19 Partial Fraction Decomposition of...

$$\frac{-4x^2 - 25x + 20}{x^3 + x^2 - 20x} = \frac{A}{x + 5} + \frac{B}{x - 4} + \frac{C}{x}$$. Find A, B and C.

Task card 20 Partial Fraction Decomposition of...

$$\frac{6x - 27}{x^2 - 9x + 14} = \frac{A}{x - 2} + \frac{B}{x - 7}$$.

Find A and B.

Task card 21 Partial Fraction Decomposition of...

$$\frac{-3x + 8}{2x^2 + 11x - 6} = \frac{A}{2x - 1} + \frac{B}{x + 6}$$. Find A and B.

Task card 22 Partial Fraction Decomposition of...

$$\frac{-4x - 12}{x^2 - 4x} = \frac{A}{x} + \frac{B}{x - 4}$$. Find A and B.

Task card 23 Partial Fraction Decomposition of...

$$\frac{8x - 34}{x^2 - 7x + 10} = \frac{A}{x - 5} + \frac{B}{x - 2}$$.

Find A and B.

Task card 24 Partial Fraction Decomposition of...

$$\frac{-4x - 18}{3x^2 - 8x - 3} = \frac{A}{3x + 1} + \frac{B}{x - 3}$$. Find A and B.

Partial Fraction Decomposition of Rational Functions Task Cards

Recording sheet · Grade 12 · Find the constants. Write your answer like A = 2, B = -3 (and C = … if there is a third fraction).

Scan to check your answers

Name: _____ Date: _____

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

Partial Fraction Decomposition of Rational Functions Task Cards: Answer Key

Grade 12 · Medium

The answers online

1. A = -5, B = -3	**2.** A = 5, B = -1	**3.** A = 6, B = 6
4. A = -3, B = -4	**5.** A = 3, B = 6	**6.** A = -6, B = -1
7. A = -1, B = 5	**8.** A = 4, B = 3	**9.** A = 5, B = -4
10. A = 4, B = 3	**11.** A = 3, B = -6, C = 2	**12.** A = 3, B = 7
13. A = 3, B = -7	**14.** A = -5, B = 4	**15.** A = -4, B = 1
16. A = -6, B = -2	**17.** A = 8, B = 6	**18.** A = -6, B = -2
19. A = 1, B = -4, C = -1	**20.** A = 3, B = 3	**21.** A = 1, B = -2
22. A = 3, B = -7	**23.** A = 2, B = 6	**24.** A = 5, B = -3