Task card 1 Partial Fraction Decomposition of...

$$\frac{-5x^2 + 30x + 11}{x^3 - 4x^2 - 17x + 60} = \frac{A}{x - 5} + \frac{B}{x - 3} + \frac{C}{x + 4}$$. Find A, B and C.

Task card 2 Partial Fraction Decomposition of...

$$\frac{6x + 13}{2x^2 - 3x - 2} = \frac{A}{2x + 1} + \frac{B}{x - 2}$$. Find A and B.

Task card 3 Partial Fraction Decomposition of...

$$\frac{3x^2 + 16x - 8}{x^3 - x^2 - 2x} = \frac{A}{x + 1} + \frac{B}{x - 2} + \frac{C}{x}$$. Find A, B and C.

Task card 4 Partial Fraction Decomposition of...

$$\frac{7x + 52}{x^2 + 11x + 28} = \frac{A}{x + 4} + \frac{B}{x + 7}$$. Find A and B.

Task card 5 Partial Fraction Decomposition of...

$$\frac{-6x^2 - 64x - 128}{x^3 + 6x^2 - x - 30} = \frac{A}{x - 2} + \frac{B}{x + 3} + \frac{C}{x + 5}$$. Find A, B and C.

Task card 6 Partial Fraction Decomposition of...

$$\frac{25x - 24}{2x^2 + x - 15} = \frac{A}{2x - 5} + \frac{B}{x + 3}$$. Find A and B.

Task card 7 Partial Fraction Decomposition of...

$$\frac{8x^2 + 40x + 40}{x^3 + 6x^2 + 11x + 6} = \frac{A}{x + 2} + \frac{B}{x + 3} + \frac{C}{x + 1}$$. Find A, B and C.

Task card 8 Partial Fraction Decomposition of...

$$\frac{6x - 9}{x^2 - 9x + 18} = \frac{A}{x - 3} + \frac{B}{x - 6}$$.

Find A and B.

Task card 9 Partial Fraction Decomposition of...

$$\frac{18x^2 - 87x + 48}{x^3 - 7x^2 + 2x + 40} = \frac{A}{x - 5} + \frac{B}{x + 2} + \frac{C}{x - 4}$$. Find A, B and C.

Task card 10 Partial Fraction Decomposition of...

$$\frac{14x - 6}{3x^2 + 11x - 20} = \frac{A}{3x - 4} + \frac{B}{x + 5}$$. Find A and B.

Task card 11 Partial Fraction Decomposition of...

$$\frac{-3x^2 - 6x + 60}{x^3 - 7x^2 + 12x} = \frac{A}{x - 4} + \frac{B}{x} + \frac{C}{x - 3}$$. Find A, B and C.

Task card 12 Partial Fraction Decomposition of...

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

Task card 13 Partial Fraction Decomposition of...

$$\frac{5x^2 - 63x + 120}{x^3 - 8x^2 + 15x} = \frac{A}{x - 3} + \frac{B}{x - 5} + \frac{C}{x}$$. Find A, B and C.

Task card 14 Partial Fraction Decomposition of...

$$\frac{24x + 17}{3x^2 - 13x - 30} = \frac{A}{3x + 5} + \frac{B}{x - 6}$$. Find A and B.

Task card 15 Partial Fraction Decomposition of...

$$\frac{-x^2 - 6x + 30}{x^3 - 5x^2 + 6x} = \frac{A}{x} + \frac{B}{x - 2} + \frac{C}{x - 3}$$. Find A, B and C.

Task card 16 Partial Fraction Decomposition of...

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

Find A and B.

Task card 17 Partial Fraction Decomposition of...

$$\frac{-5x^2 + 8x + 39}{x^3 + 6x^2 - x - 30} = \frac{A}{x + 5} + \frac{B}{x - 2} + \frac{C}{x + 3}$$. Find A, B and C.

Task card 18 Partial Fraction Decomposition of...

$$\frac{-15x + 50}{2x^2 - 17x + 21} = \frac{A}{2x - 3} + \frac{B}{x - 7}$$. Find A and B.

Task card 19 Partial Fraction Decomposition of...

$$\frac{6x^2 + 21x - 81}{x^3 - 4x^2 + x + 6} = \frac{A}{x - 3} + \frac{B}{x - 2} + \frac{C}{x + 1}$$. Find A, B and C.

Task card 20 Partial Fraction Decomposition of...

$$\frac{72}{x^2 + x - 20} = \frac{A}{x - 4} + \frac{B}{x + 5}$$.

Find A and B.

Task card 21 Partial Fraction Decomposition of...

$$\frac{-4x^2 - 42x - 140}{x^3 + 9x^2 + 20x} = \frac{A}{x + 5} + \frac{B}{x} + \frac{C}{x + 4}$$. Find A, B and C.

Task card 22 Partial Fraction Decomposition of...

$$\frac{18x - 50}{3x^2 - 23x + 14} = \frac{A}{3x - 2} + \frac{B}{x - 7}$$. Find A and B.

Task card 23 Partial Fraction Decomposition of...

$$\frac{-7x^2 - 20x + 20}{x^3 + 4x^2 - 4x - 16} = \frac{A}{x + 4} + \frac{B}{x - 2} + \frac{C}{x + 2}$$. Find A, B and C.

Task card 24 Partial Fraction Decomposition of...

$$\frac{-x - 45}{x^2 + 2x - 15} = \frac{A}{x - 3} + \frac{B}{x + 5}$$. 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 · Hard

The answers online

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