Task card 1 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 7} \frac{x^2 - 49}{x - 7}$$

Task card 2 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 5} \frac{x^2 + x - 30}{x - 5}$$

Task card 3 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -4} \frac{x^2 - 16}{x + 4}$$

Task card 4 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{9x - 9}{-5x + 1}$$

Task card 5 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{6x^2 - 8x + 9}{6x^2 + 5}$$

Task card 6 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-6x^2 - 3x + 4}{-4x^2 - 4}$$

Task card 7 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -1} \frac{x^2 - 3x - 4}{x + 1}$$

Task card 8 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -5} \frac{x^2 - 25}{x + 5}$$

Task card 9 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 8} \frac{x^2 - 64}{x - 8}$$

Task card 10 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 6} \frac{x^2 - 3x - 18}{x - 6}$$

Task card 11 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -8} \frac{x^2 - 64}{x + 8}$$

Task card 12 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-3x^2 - 8x + 2}{-x^2 + 9}$$

Task card 13 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-2x^2 - 2x}{4x^2 + 6}$$

Task card 14 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-6x + 3}{-6x - 7}$$

Task card 15 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -7} \frac{x^2 + 9x + 14}{x + 7}$$

Task card 16 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 1} \frac{x^2 + 3x - 4}{x - 1}$$

Task card 17 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to -3} \frac{x^2 + 8x + 15}{x + 3}$$

Task card 18 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-9x^2 - 5x + 3}{-x^2 + 6}$$

Task card 19 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{-x + 1}{2x^2 + 6x + 9}$$

Task card 20 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 5} \frac{2x^2 - 4x - 30}{x^2 - 8x + 15}$$

Task card 21 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{x - 6}{6x - 8}$$

Task card 22 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 1} \frac{x^2 - 8x + 7}{x - 1}$$

Task card 23 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to 5} \frac{x^2 - 3x - 10}{x - 5}$$

Task card 24 Limits: Factoring & Limits at Infi...

Find the limit:

$$\lim_{x \to \infty} \frac{7x - 3}{-x + 3}$$

Limits: Factoring & Limits at Infinity Task Cards

Recording sheet · Grade 12 · Evaluate each limit. Give fractions in simplest form.

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

Limits: Factoring & Limits at Infinity Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. 14	**2.** 11	**3.** -8
4. $-\frac{9}{5}$	**5.** 1	**6.** $\frac{3}{2}$
7. -5	**8.** -10	**9.** 16
10. 9	**11.** -16	**12.** 3
13. $-\frac{1}{2}$	**14.** 1	**15.** -5
16. 5	**17.** 2	**18.** 9
19. 0	**20.** 8	**21.** $\frac{1}{6}$
22. -6	**23.** 7	**24.** -7