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

Find the limit:

$$\lim_{x \to -4} \frac{x^2 - 3x - 28}{x + 4}$$

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

Find the limit:

$$\lim_{x \to \infty} \frac{-8x^3 + x^2 - 7}{3x^3 + 6}$$

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

Find the limit:

$$\lim_{x \to \infty} \frac{9x + 8}{-4x^2 + 9x + 5}$$

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

Find the limit:

$$\lim_{x \to 4} \frac{x^2 + x - 20}{x^2 - 10x + 24}$$

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

Find the limit:

$$\lim_{x \to 1} \frac{x^2 - 5x + 4}{x^2 - 3x + 2}$$

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

Find the limit:

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

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

Find the limit:

$$\lim_{x \to \infty} \frac{-3x^3 - 2x^2 - 8}{-4x^3 + 6}$$

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

Find the limit:

$$\lim_{x \to \infty} \frac{5x - 4}{-5x^2 + 9x - 1}$$

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

Find the limit:

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

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

Find the limit:

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

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

Find the limit:

$$\lim_{x \to 1} \frac{\sqrt{x} - 1}{x - 1}$$

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

Find the limit:

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

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

Find the limit:

$$\lim_{x \to -5} \frac{x^2 + 2x - 15}{x^2 - 25}$$

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

Find the limit:

$$\lim_{x \to -3} \frac{x^2 - 4x - 21}{x + 3}$$

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

Find the limit:

$$\lim_{x \to 1} \frac{3x^2 + 2x - 5}{x^2 + 4x - 5}$$

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

Find the limit:

$$\lim_{x \to \infty} \frac{9x^3 + 3x^2 - 5}{-6x^3 - 7}$$

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

Find the limit:

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

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

Find the limit:

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

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

Find the limit:

$$\lim_{x \to 36} \frac{\sqrt{x} - 6}{x - 36}$$

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

Find the limit:

$$\lim_{x \to \infty} \frac{5x^2 + 2x + 8}{-6x^2 + 7}$$

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

Find the limit:

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

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

Find the limit:

$$\lim_{x \to 3} \frac{x^3 - 27}{x - 3}$$

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

Find the limit:

$$\lim_{x \to -3} \frac{x^2 - x - 12}{x + 3}$$

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

Find the limit:

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

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 · Medium

The answers online

1. -11	**2.** $\frac{8}{-3}$	**3.** 0
4. $\frac{9}{-2}$	**5.** 3	**6.** 4
7. $\frac{3}{4}$	**8.** 0	**9.** -1
10. 12	**11.** $\frac{1}{2}$	**12.** -2
13. $\frac{4}{5}$	**14.** -10	**15.** $\frac{4}{3}$
16. $\frac{3}{-2}$	**17.** -4	**18.** $\frac{1}{-8}$
19. $\frac{1}{12}$	**20.** $\frac{5}{-6}$	**21.** -6
22. 27	**23.** -7	**24.** $\frac{1}{8}$