

Slant Asymptotes

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the slant asymptote, if any, of the graph of the rational function.

1) $f(x) = \frac{x^2 + 3x - 6}{x - 3}$

1) _____

A) $y = x + 6$

B) $y = x$

C) $y = x + 3$

D) no slant asymptote

2) $f(x) = \frac{x^2 - 4x + 9}{x + 5}$

2) _____

A) $y = x - 9$

B) $x = y + 4$

C) $y = x + 13$

D) no slant asymptote

3) $f(x) = \frac{x^2 - 8x + 9}{x + 4}$

3) _____

A) $y = x - 12$

B) $x = y + 8$

C) $y = x + 17$

D) no slant asymptote

4) $f(x) = \frac{x^2 - 2x + 2}{x + 2}$

4) _____

A) $x = y + 2$

B) $y = x - 4$

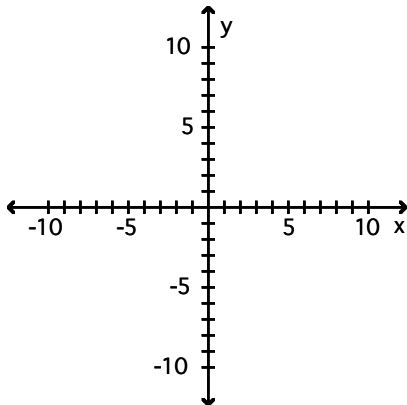
C) $y = x + 4$

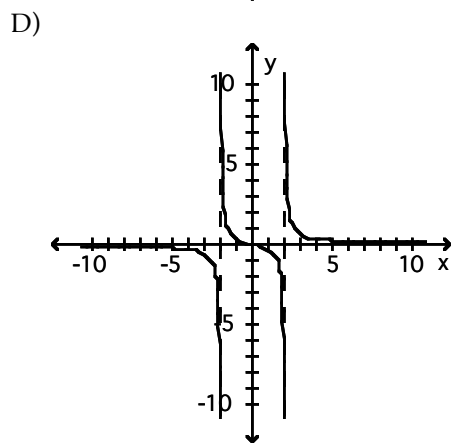
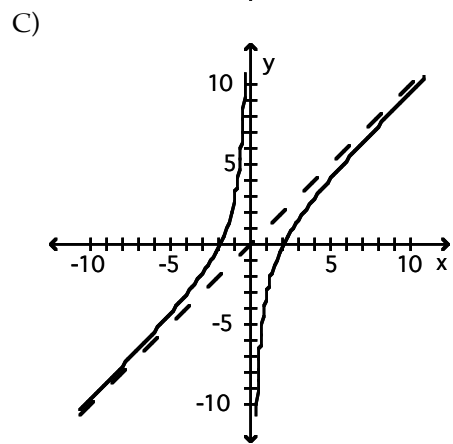
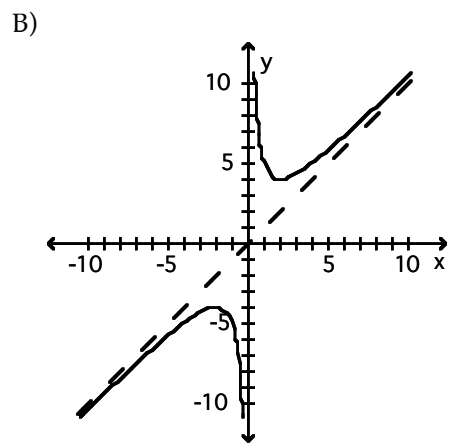
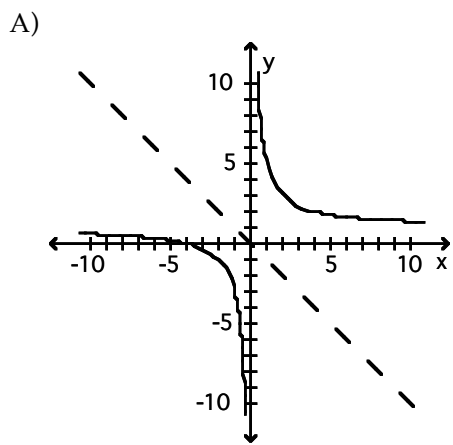
D) no slant asymptote

Graph the function.

5) $f(x) = \frac{x^2 + 4}{x}$

5) _____





Answer Key

Testname: SLANT ASYMPTOTES

- 1) A
- 2) A
- 3) A
- 4) B
- 5) B