

Review for Quiz

Simplify each expression. (3 pt. each)

1) $\frac{n-1}{3} \div \frac{7n+56}{3}$

2) $\frac{1}{4k} \div \frac{2k^2-8k}{k^2-10k+24}$

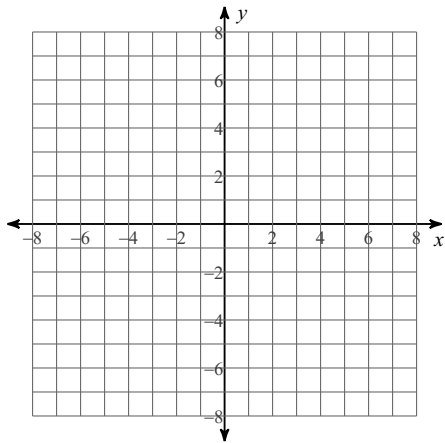
Identify the Vertical Asymptote, Horizontal Asymptote, and Hole. (3 pt. each)

3) $\frac{7n-21}{8n-24}$

4) $\frac{b^2+12b+32}{10b+80}$

Sketch the graph. (5 pt. each)

$$5) f(x) = \frac{2x - 6}{x^2 - 7x + 12}$$



Simplify each and state the excluded values. (3 pt. each)

$$6) \frac{45n^2 + 54n}{27n^2 + 90n}$$

$$7) \frac{12x^2 - 40x}{8x^2 - 40x}$$

Review for Quiz

Simplify each expression. (3 pt. each)

1) $\frac{n-1}{3} \div \frac{7n+56}{3}$

$$\frac{n-1}{7(n+8)}$$

2) $\frac{1}{4k} \div \frac{2k^2-8k}{k^2-10k+24}$

$$\frac{k-6}{8k^2}$$

Identify the Vertical Asymptote, Horizontal Asymptote, and Hole. (3 pt. each)

3) $\frac{7n-21}{8n-24}$

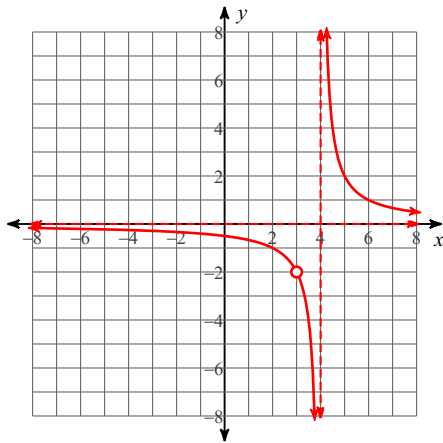
$$\frac{7}{8}; \{3\}$$

4) $\frac{b^2+12b+32}{10b+80}$

$$\frac{b+4}{10}; \{-8\}$$

Sketch the graph. (5 pt. each)

$$5) f(x) = \frac{2x - 6}{x^2 - 7x + 12}$$



Vertical Asym.: $x = 4$
Holes: $x = 3$
Horz. Asym.: $y = 0$

Simplify each and state the excluded values. (3 pt. each)

$$6) \frac{45n^2 + 54n}{27n^2 + 90n}$$
$$\frac{5n + 6}{3n + 10}; \left\{ 0, -\frac{10}{3} \right\}$$

$$7) \frac{12x^2 - 40x}{8x^2 - 40x}$$
$$\frac{3x - 10}{2(x - 5)}; \{0, 5\}$$