

MasterMath

Dividing Polynomials; Synthetic Division

Name _____

Date _____

1. Divide $8x^3 - 12x^2 + 16x$ by $4x$

2. $(12r^4 - 30r^2 - 72r) \div (-6r)$

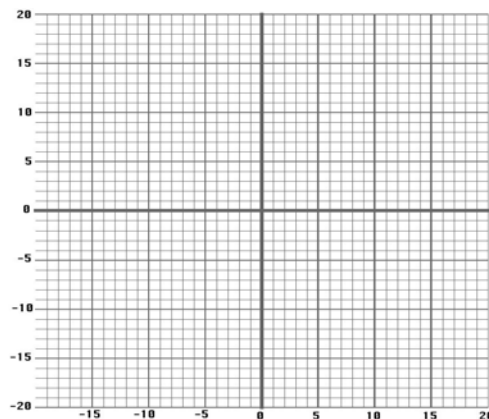
3. $(a^2 - 5a + 3) \div (a - 1)$

4. $(5 - t^2) \div (t - 3)$

5. Graph the function

$$y = \frac{2x^2 - 11x - 6}{x - 6}$$

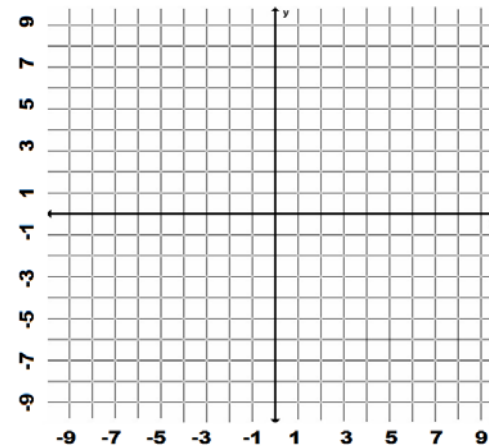
Hint: this lesson is about division.



6. Graph the function

$$y = \frac{2x - 4}{x - 1}$$

Hint: What are the asymptotes?



7. Use Synthetic Division to find the quotient:

$$(x^3 - x^2 - 14x + 11) \div (x - 4)$$

8. Use Synthetic Division to find the quotient:

$$(2x^3 - 4x - 8) \div (x - 2)$$