

## Basic Algebra — Quiz 15

1. Divide.

$$(a) \frac{25x^3y^2 - 15x^2y^3 - 30xy^4}{5xy} =$$

$$(b) \frac{3x^2 + 8x - 1}{x + 3} =$$

$$(c) \frac{x^3 + 8}{x + 1} =$$

2. Express using positive exponents. Then simplify if possible.

$$(a) 3^{-2} =$$

$$(h) x^{-5}y^2 =$$

$$(b) (-3)^{-2} =$$

$$(i) (x^2)^{-5} =$$

$$(c) -3^{-2} =$$

$$(j) (mn)^{-3} =$$

$$(d) x^2y^{-3} =$$

$$(k) (2x^3y^{-5})^2 =$$

$$(e) 5^{-1} =$$

$$(l) \frac{3x^5}{x^{-2}} =$$

$$(f) \left(\frac{2}{3}\right)^{-3} =$$

$$(m) \frac{4x^{-3}}{y^{-2}z^3} =$$

$$(g) \frac{1}{x^{-2}} =$$

$$(n) \left(\frac{a^2b^3}{c^{-2}d^2}\right)^{-3} =$$