

Name : _____

Dividing Polynomials

Sheet 1

Divide by factorization method.

$$1) \frac{(x + y)(8x - 16y)}{x^2 - xy - 2y^2}$$

$$2) \frac{6n^3 - 5n^2 - 54n + 45}{n + 3}$$

$$3) \frac{12p^4 - 36p^3 + 27p^2}{2p - 3}$$

$$4) \frac{(s - 3r)^2(s + 4r)}{s^2 + rs - 12r^2}$$

$$5) \frac{(5d^2 + 34d - 7)(d + 7)}{d^2 + 14d + 49}$$

$$6) \frac{3u^5 - 75u^3}{(u + 5)(u - 5)}$$

$$7) \frac{2h^3 - 7h^2 - 10h + 35}{h^2 - 5}$$

$$8) \frac{4a^4 + 32a^3 - 36a^2}{4a^3 + 36a^2}$$