

## Dividing Polynomials

Divide by factorization method.

$$1) \quad \frac{36a^6 - 48a^5 + 16a^4}{6a^3 - 4a^2}$$

$$2) \quad \frac{(2m^2 - 5m + 3)(2m - 3)}{4m^2 - 12m + 9}$$

$$3) \quad \frac{(2g + h)(g^2 - h^2)}{2g^2 + 3gh + h^2}$$

$$\frac{b + 20}{2}$$

$$5) \quad \frac{18r^2 - 98}{(3r + 7)(3r - 7)}$$

$$\frac{5t^2(t - 3)}{2}$$

$$7) \quad \frac{(u - 7)^2(u - 4)}{u^2 - 11u + 28}$$

$$8) \quad \frac{8c^3 + 12c^2 - 16c - 24}{c^2 - 2}$$

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**Dividing Polynomials**

Divide by factorization method.

1) 
$$\frac{36a^6 - 48a^5 + 16a^4}{6a^3 - 4a^2}$$

2) 
$$\frac{(2m^2 - 5m + 3)(2m - 3)}{4m^2 - 12m + 9}$$

$2a^2(3a - 2)$

$m - 1$

3) 
$$\frac{(2g + h)(g^2 - h^2)}{2g^2 + 3gh + h^2}$$

$b + 20$

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$g - h$

5) 
$$\frac{18r^2 - 98}{(3r + 7)(3r - 7)}$$

$\frac{5t^2(t - 3)}{2}$

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$2$

7) 
$$\frac{(u - 7)^2(u - 4)}{u^2 - 11u + 28}$$

8) 
$$\frac{8c^3 + 12c^2 - 16c - 24}{c^2 - 2}$$

$u - 7$

$4(2c + 3)$