

Do Now

Simplify

1) $(3n^2 + 5n - 6) + (-n^2 - 3n + 3)$

2) $(y^2 - 3y - 5) - (-y^2 - 7y + 4)$

4.3

Multiplying Monomials

Review

$$5a^2 + 6a + 3a^2$$

Rules:

Example 1

$$\begin{aligned} & a^2 \bullet a^3 \\ &= (a \bullet a) \bullet (a \bullet a \bullet a) \\ &= a^5 \end{aligned}$$

Example 2

$$\begin{aligned} & m^3 \bullet m^4 \\ & = (m \bullet m \bullet m) \bullet (m \bullet m \bullet m \bullet m) \\ & = m^7 \end{aligned}$$

Let' see...

1) $a^7 \bullet a^8$

2) $f^5 \bullet f^9$

...with coefficients

3) $(5m^7)(8m^8)$

4) $(-7x^4y^3)(4x^2y^6)$

5) $\left(\frac{15x^7y}{4}\right)\left(\frac{8x^3y^8}{3}\right)$

Area and Perimeter

