Simplifying Exponential Expressions

Simplify the following exponential expressions.

1)
$$(2m^9)(7m^{-3})$$

$$2) \quad \frac{4y^{-6}}{16y^{-3}}$$

3)

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5)

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7)
$$(6z^6)(3z^{-3})$$

8)
$$\frac{-82v^9}{-56v^6}$$