

DO NOW

Simplify

1) $\frac{15m - 25m^2 - 5m^3}{5m}$ 2) $\frac{28h^5k^3 - 35hk^2}{7hk^2}$

Factor

3) $12a^3 - 6a^2 + 18a$

5.4

MULTIPLYING BINOMIALS MENTALLY

NEW VOCABULARY

$7x^2$ Quadratic Term (Monomial)
The degree of the variable is 2

$4x$ Linear Term (Monomial)
The degree of the variable is 1

-12 Constant
A number without a variable

$2x^2 - 14x - 4$
Quadratic Polynomial
The highest degree of the variables is 2

Simplify the following

$(x + 5)(x + 4)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

Simplify the following

$(x + 5)(x + 4)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

1) Simplify the following

$(y + 3)(y + 4)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

- 2) Simplify the following
 $(n - 5)(n - 6)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

- 3) Simplify the following
 $(3x + 2)(x - 4)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

- 4) Simplify the following
 $(7m - 3)(6m + 2)$

USING THE FOIL METHOD

Front
Outside
Inside
Last

- 5) Simplify the following
 $(3x - 4y)(5x + y)$

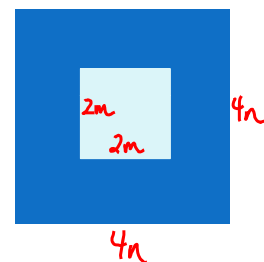
USING THE FOIL METHOD

Front
Outside
Inside
Last

- 6) Simplify the following
 $(m^2 - 3m)(2m^2 + 5m)$

REVIEW...

- 7) Write the following as an expression and then factor it.



REVIEW...

- 8) Write the following as an expression and then factor it.

