3.3 Common Factors of Polynomials (part 2)

*To factor a polynomial with algebra tiles, you must form a ⬚
with all the tiles and measure the ⬚

    ex. *3x + 6*   ex. *$2x^2 + 8x$*

*To factor algebraically, divide each term by a ⬚. This factor is
then written ⬚ the polynomial.

    ex. *3x + 6*   ex. *$2x^2 + 8x$*

    ex. *$-5x^2 - 25x + 10$*   ex. *$3x^2y - 36xy^2 + 18xy$*

ex. The formula for the area of a cylinder is *$A = 2\pi r^2 + 2\pi rh$.* Factor this
expression completely and determine the area of a cylinder with a radius of
3cm and a vertical height of 5 cm.