8.5 Factoring by Distributive Property DAY 3

Solving Equations

Some equations can be solved by factoring.

The Zero Product Property
If the product of 2 factors is zero,
then at least one of the factors must be zero.
EX: if ab = 0, then a = 0,
or b = 0
or a and b equal 0

a	b	Product
2		0
	5	0
-1		0
		0

Solving an Equation by Factoring

recall: "solving" means finding the values of the variable that make the equation true

a) Solve: $3n^2 + 6n = 0$ make sure your equation = 0

$3n(n + 2) = 0$ factor the polynomial expression

Solve

b) $3k^2 + 30k = 0$

.

c) $(4m + 2)(3m - 9) = 0$