## Angles and Parallel Lines Notes - Day 2
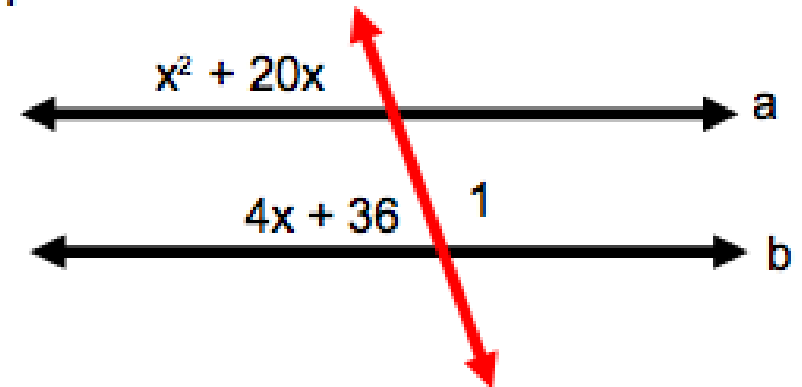
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Hint:  Corresponding angles are congruent.

$x^2 + 20x$

$\longleftrightarrow$ a

$4x + 36$  1

$\longleftrightarrow$ b

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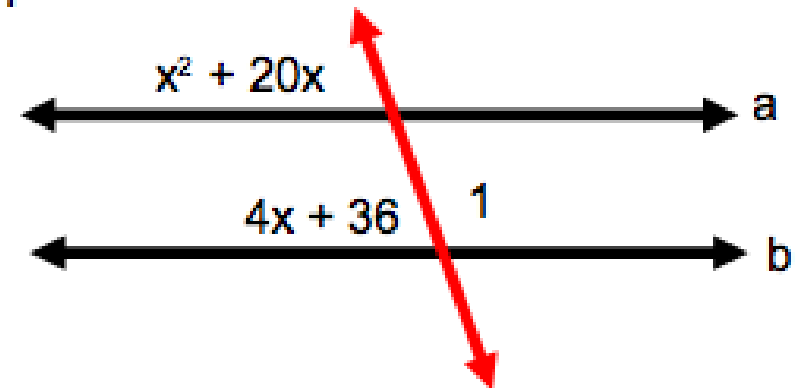
$x^2 + 20x$ — a

$4x + 36$  1 — b

$$x^2 + 20x = 4x + 36$$

$$x^2 + 16x - 36 = 0$$

$$(x + 18)(x - 2) = 0$$

$$x = -18 \text{ and } 2$$

Only 2 is a solution;
-18 results in a negative
angle measurement.

$$(4x + 36) + \angle 1 = 180$$

$$4(2) + 36 + \angle 1 = 180$$

$$44 + \angle 1 = 180$$

$$\angle 1 = 136°$$