

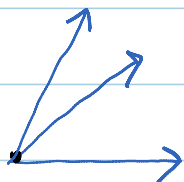
Describing Angles

November-22-13

9:12 AM

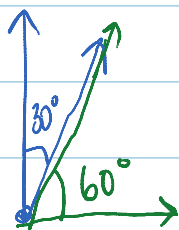
Adjacent angles:

↳ share a common vertex and a common ray



Complementary angles

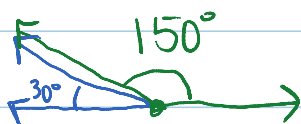
↳ 2 angles that have measures that add up to 90°



$$30^\circ + 60^\circ = 90^\circ$$

Supplementary angles

↳ 2 angles that have measures that add up to 180°



$$30^\circ + 150^\circ = 180^\circ$$

Ex. #1 Find the complement and supplement for each angle, if they exist

(a.) 75°

complement

$$90^\circ - 75^\circ = 15^\circ$$

supplement

$$180 - 75 = 105^\circ$$

(b.) 103°

does not exist

$$180^\circ - 103^\circ \\ = 77^\circ$$

(c.) 300°

does not exist

does not exist

(d.) 87°

$$90 - 87 \\ = 3^\circ$$

$$180^\circ - 87^\circ \\ = 93^\circ$$