

1-1. What value of  $x$  satisfies  $x(x-2009) = x(x+2009)$ ?

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1-2. My 5 coupons are worth \$1, \$2, \$5, \$6, and \$10, respectively. What are the only two whole-number dollar amounts from \$1 through \$24 that I cannot pay exactly using one or more of these 5 coupons?

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1-3. An equilateral triangle and a square share a common side, as shown. In non-equilateral  $\triangle ABC$ , what is  $m\angle ACB$ ?

