Which of the following has zeros at $x = 2$ and $x = -4$?

(A) $y = (x + 2)(x - 4)$

(B) $y = x^2 + 2x - 8$

(C) $y = 2(x + 4)(x - 2)$

(D) $y = -\frac{1}{2}(x - 2)(x + 4)$

(E) $y = x^2 - 2x - 8$

(F) $y = 2(x - 4)$

Scoring: Worth 1 point. B, C, D

Key and distractor analysis:

A. Student used the opposite zeros.
B. Key
C. Key
D. Key
E. Student used the opposite zeros and multiplied the binomials.
F. Student simply guessed because the numbers 2 and –4 were included in the problem.

Seeing Structure in Expressions A.SSE

Write expressions in equivalent forms to solve problems.

3. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.