

If  $P(x)$  is a polynomial in  $x$ , then  $P(x) = 0$  if and only if \_\_\_\_\_ is a factor of  $P(x)$ .

- A)  $x^2$
  - B)  $r^2$
  - C)  $x + r$
  - D)  $x - r$
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If  $P(x)$  is a polynomial in  $x$ , then  $P(x) = 0$  if and only if  $x - r$  is a factor of  $P(x)$ .

Answer **D**.