

Domain and Range

Write the range of each function for the given domain.

1) $f(x) = \sqrt{2x} + 12$

Domain = $\left\{\frac{1}{8}, \frac{1}{2}, 18\right\}$

2) $f(x) = x^3 + 4x^2 - 24$

Domain = $\{-8, -5, 0, 6, 7\}$

3) $f(x) = \sqrt{x} + 1$
Domain = $\{1, 4, 9, 16, 25, 36\}$


4) $f(x) = \sqrt{x^2 + 4}$
Domain = $\{-2, -1, 0, 1, 2\}$

5) $f(x) = \sqrt{x^2 + 4}$
Domain = $\{-2, -1, 0, 1, 2\}$

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Range : _____

Range : _____

7) $f(x) = \frac{1}{6}x^4 - x^2 + 2x - 20$

Domain = $\{-6, -4, -2, 2, 4, 6\}$

8) $f(x) = \frac{-6x + 2}{3}$

Domain = $\left\{\frac{1}{3}, \frac{2}{3}, \frac{5}{6}\right\}$

Range : _____

Range : _____