Question

Solve for all values of x that satisfy the equation:

$$x^2 - 12x + 20 = x - 10$$

Corrected Question

Data storage conversions are as follows:

- $8\,\text{bits} = 1\,\text{byte}$
- $2^{10}\,\text{bytes} = 1\,\text{kilobyte}$
- $2^{20}\,\text{bytes} = 1\,\text{megabyte}$
- $2^{10}\,\text{megabytes} = 1\,\text{gigabyte}$

Based on these conversions, how many **bits** are equivalent to 2 gigabytes?

Options:

A) 2^{32}
B) 2^{33}
C) 2^{34}
D) 2^{35}
E) 2^{36}

$\sqrt{4/x^2} = 2/x^2$

求 x

Question

A cone has a height that is **three times its radius**, and the cone's volume is $36\pi \text{ in}^3$. What is the cone's height, in inches?

The volume of a cone is given by:

$$V = \frac{1}{3}\pi r^2 h$$

Options:

A) 6

B) 9

C) 12

D) 18

E) 24

Revised Question with Correct Options

Let the function $f(x)$ be defined as:

$$f(x) = 2x^2 + 3x - 7$$

Which of the following expressions is equivalent to $f(a - 2)$?

Options:

A) $2a^2 - 5a + 9$

B) $2a^2 - 5a - 5$

C) $2a^2 - 8a + 13$

D) $2a^2 - 5a - 7$

E) $2a^2 - 8a + 9$

$$\sqrt{\frac{81}{9}} + \sqrt{\frac{64}{16}} \qquad\qquad \sqrt{\frac{144}{16}} + \sqrt{\frac{64}{25}}$$