1 Express the following as a single fraction in its simplest form:

$$\frac{x + 2}{3} \times \frac{9}{4x + 8}$$

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Answer

(4)

2 x^2 is inversely proportional to m.

When $m = 4$, $x = 25$.

a. Find a fully simplified formula for x in terms of m.

b. What is the value of x when $m = 36$? Give your answer rounded to 1 decimal place.

Answer

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(6)

3 Solve the following equations:

$$x^2 + y = 52$$
$$x + y = 10$$

Answer

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(5)