

11 and -11

Find the product of $3x + 1$ and $8x - 3$

$$24x^2 - x - 3$$

Find the product of $2x^2 - 4x - 5$ and $3x + 6$

$$6x^3 - 39x - 30$$

Factor the expression $x^4 - 100$

$$(x^2 + 10)(x^2 - 10)$$

Factor the expression $x^4 + 5x^2 - 150$

$$(x^2 + 15)(x^2 - 10)$$

If $A = 2x^2 + x - 1$ and $B = 9 - x$,
find the product of A and B

$$-2x^3 + 17x^2 + 10x - 9$$

Find the zeros of $x^2 - 28x - 60$

-2 and 30

Find the zeros of $3x^2 - 88x - 60$

$$-\frac{2}{3} \text{ and } 30$$

How many possible integers for b exist
where $x^2 + bx + 28$ can be written in factored form?

6

Rewrite in factored form.
Make sure to factor as much as possible:

$$x^4 - 81$$

$$(x^2 + 9)(x - 3)(x + 3)$$

Rewrite in factored form: $x^8 - 1$
Factor as much as possible

$$(x^4 + 1)(x^2 + 1)(x + 1)(x - 1)$$

Find the zeros $x^2 - 121$

