Quiz Two

Math Question

$$\frac{5 \times - 11}{2 \times^{2} + 2 - 6} = \frac{A}{2 + 2} + \frac{B}{2 \times - 3}$$

$$\Rightarrow \frac{5 \times - 11}{(x + a)(a \times - 3)} = \frac{A(a \times - 3) + B(x + 2)}{(x + a)(a \times - 3)}$$

$$\Rightarrow 5 \times - 11 = A(a \times - 3) + B(x + 2)$$

$$\Rightarrow 5 \times - 11 = (A + B) \times + (-3A + 2B)$$
[comparing the co-efficient of x and constant term in both the sides]
$$2A + B = 5 - (1) - 3A + 2B = -11 - (11)$$

$$\Rightarrow B = 5 - 2A - (11)$$
Put the value of B = 5-2A in (11)
$$-3A + 2(5 - 2A) = -11$$

$$-3A + 10 - 4A = -11$$

$$-4A = -21$$

$$A = 3$$
Put the value of A = 3 in (111),
$$B = 5 - 2(3)$$

$$= 5 - 6$$

$$= -1$$

Mhigh two of the following numbers have a product that is

Which two of the following numbers have a product that is between -1 and 0?

Indicate both of the numbers.

Therefore, A = 3, B = -1.

-10