AGrader LEARNING CENTRE
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Term 2 Practice

SEC 2 MATH

Answer **all** the questions.

1. Solve $x^2 - 5x - 6 = 0$.

2. Simplify each of the following.
   a) $\frac{13xy}{65x^2y}$
   b) $\frac{p^2-36}{p^2-5p-6}$

3. In each of the following cases, make the letter in the brackets the subject of the formula.

a) $q = \frac{5p}{a} - 7$ $[p]$

b) $\frac{x}{3} = \frac{y}{1-2y}$ $[y]$

c) $s = \frac{qr}{2q-r}$ $[q]$

d) $a = \frac{b(2c+a)}{c}$ $[c]$

e) $\frac{1}{p} - \frac{1}{q} = \frac{1}{r}$ $[p]$

4. Simplify each of the following.
   a) $\frac{3}{x+2} - \frac{2}{(x+2)^2}$
   b) $\frac{5}{x^2-x-2} - \frac{2}{1+x}$
   c) $\frac{3}{x^2-5x+6} - \frac{2}{3-x}$
   d) $\frac{3}{x-6} + \frac{2x}{36-x^2}$

5. Express each of the following as a single fraction in its simplest form.
   a) $\frac{2}{t+3} + \frac{3}{5t-2}$
   b) $\frac{5}{5r+3} - \frac{3}{3r-1}$