1 (a) Factorise $5x^2 + 6x - 8$

[2 marks]

Answer _____

2 Circle the factor of $x^2 - 5x$

[1 mark]

$x - 1$ $-5x$ $x - 5$ $5x$

3 Factorise $x^2 - 64$

Circle your answer.

[1 mark]

$(x + 8)^2$ $(x - 8)^2$ $(x + 8)(x - 8)$ $x(x - 64)$

4 Factorise $3x^2 - 16x - 12$

[2 marks]

Answer _____

5 (a) By factorising $x^2 + x - 90$ work out the value of x.

You **must** show your working

[2 marks]

$x =$ _____

6 Factorise fully $x^3 - 49x$

[2 marks]

Answer _____

7 (a) Factorise $8x^2 - 18x - 35$

[2 marks]

Answer _____

8 $(x - 9) = \dfrac{2(6 - x^2)}{x + 3}$ and $x = \dfrac{d \pm \sqrt{e}}{f}$

Work out one set of possible values for d, e and f.

[4 marks]

$d =$ _____

$e =$ _____

$f =$ _____