Exercise 2G

Question 31:

$15x^2 - x - 28$

$= 15x^2 + 20x - 21x - 28$

$= 5x (3x + 4) - 7 (3x + 4)$

$= (3x + 4) (5x - 7).$

Question 32:

$8a^2 - 27ab + 9b^2$

$= 8a^2 - 24ab - 3ab + 9b^2$

$= 8a (a - 3b) - 3b (a - 3b)$

$= (a - 3b) (8a - 3b).$

Question 33:

$5x^2 + 33xy - 14y^2$

$= 5x^2 + 35xy - 2xy - 14y^2$

$= 5x (x + 7y) - 2y (x + 7y)$

$= (x + 7y) (5x - 2y).$

Question 34:

$3x^3 - x^2 - 10x$

$= x (3x^2 - x - 10)$

$= x [3x^2 - 6x + 5x - 10]$

$= x [3x (x - 2) + 5 (x - 2)]$

$= x (x - 2) (3x + 5).$

*********** END **********