Exercise 2F

Question 6:

$20x^2 - 45$

$= 5(4x^2 - 9)$

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

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

[Since $a^2 - b^2 = (a+b) (a-b)$]

Question 7:

$3x^3 - 48x$

$= 3x (x^2 - 16)$

$= 3x [(x)^2 - (4)^2]$

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

[Since $a^2 - b^2 = (a+b) (a-b)$]

Question 8:

$2 - 50x^2$

$= 2 (1 - 25x^2)$

$= 2 [(1)^2 - (5x)^2]$

$= 2 (1 + 5x) (1 - 5x)$

[Since $a^2 - b^2 = (a+b) (a-b)$]

Question 9:

$27a^2 - 48b^2$

$= 3 (9a^2 - 16b^2)$

$= 3 [(3a)^2 - (4b)^2]$

$= 3(3a + 4b) (3a - 4b)$

[Since $a^2 - b^2 = (a+b) (a-b)$]

Question 10:

$x - 64x^3$

$= x (1 - 64x^2)$

$= x[(1)^2 - (8x)^2]$

$= x (1 + 8x) (1 - 8x)$

[Since $a^2 - b^2 = (a+b) (a-b)$]

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