

## Section 5.5

### Exercises

Solve the following equations by taking the square root of both sides.

1.  $x^2 = 25$
2.  $x^2 = 144$
3.  $x^2 - 100 = 0$
4.  $x^2 - 81 = 0$
5.  $3x^2 - 75 = 0$
6.  $8x^2 - 32 = 0$
7.  $16x^2 - 9 = 0$
8.  $4x^2 - 49 = 0$
9.  $(x-4)^2 = 4$
10.  $(x+3)^2 = 25$
11.  $(x-1)^2 - 8 = 1$
12.  $(x+5)^2 - 31 = 5$
13.  $2(x+5)^2 - 12 = 6$
14.  $5(x-2)^2 - 11 = 9$
15.  $(x+7)^2 = 5$
16.  $(x-6)^2 = 10$
17.  $(x+2)^2 = 8$
18.  $(x+4)^2 = 20$
19.  $2(x+1)^2 = 36$
20.  $6(x-3)^2 = 144$