

(C2-2.2) Name:

Homework Questions 2 – Solving Quadratic Equations

Solve the following quadratic equations

1. $(x + 2)(x + 4) = 0$

2. $(x - 5)(x - 6) = 0$

3. $(x - 7)(x - 4) = 0$

4. $x(x + 7) = 0$

5. $(2x + 3)(x - 8) = 0$

6. $(5x - 3)(x + 5) = 0$

Solve the following quadratic equations by factorizing first

7. $x^2 - 7x + 12 = 0$

8. $x^2 + 5x - 6 = 0$

9. $x^2 - 2x - 15 = 0$

10. $x^2 + 5x - 24 = 0$

11. $x^2 + 11x + 30 = 0$

12. $x^2 = 88 - 3x$

13. $x^2 = 6x - 8$

$x =$

14. $7x = x^2 - 30$

$x =$

15. $2x^2 - 3 = x$

$x =$

16. $4x^2 - 29x + 7 = 0$

$x =$

17. $4x^2 = x$

$x =$

Solve these equations, leave your answer in surd form if necessary

18. $(3x - 2)^2 = 36$

$x =$

19. $3x^2 = 27$

$x =$

20. $(x - 4)^2 = 8$

$x =$