

Ninth Set of Homework

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Due: Tuesday March 1

Please note: You should fully justify your answers.

Solving equations involving radicals

1. Solve each of the following equations:

(a) $\sqrt{x+5} = 4$

(b) $\sqrt{5x+36} = 9$

(c) $\sqrt{3x-1} = -3$

(d) $\sqrt{2x+5} - 3 = 2$

(e) $\sqrt{3x+1} + 4 = 2$

(f) $\sqrt{x+5} = x - 5$

(g) $\sqrt{2x+5} = x + 3$

(h) $-\sqrt{x+3} = x - 9$

(i) $\sqrt{2x+4} = \sqrt{1-x}$

(j) $\sqrt{3x-4} = \sqrt{2x+7}$

(k) $\sqrt{x+3} = \sqrt{x-3}$

(l) $\sqrt{x+5} - \sqrt{10x-4} = -3$

(m) $\sqrt{\sqrt{x-3}+5} = \sqrt{x+2}$