

Review - Solving a variety of equations! Yes, some will be graded.**Solve each equation. Solutions without supporting work will not receive credit.**

1) $-3n - 4n = -14$

2) $10 = 5n + 5n$

3) $a + 2 + 1 = 1$

4) $1 = n + 1 + 6n$

5) $3(5v + 5) - 1 = 104$

6) $-2(5x + 3) = -66$

7) $34 - 4x = 6(x - 6)$

8) $-7(1 - 6x) = 28 + 7x$

$$9) x^2 + 8x + 2 = 0$$

$$10) x^2 - 6x + 13 = 0$$

$$11) x^3 + 8x^2 + 32x = 0$$

$$12) x^2 - 6x + 5 = 0$$

$$13) r^2 - 7 = 3$$

$$14) 3x^2 = 48$$

$$15) 2r^2 + 3 = 2$$

$$16) -8 - 3a^2 = -59$$

$$17) 3 = \sqrt{3n}$$

$$18) \sqrt{m-1} = 2$$

$$19) \sqrt{3m-4} = \sqrt{2m-2}$$

$$20) \sqrt{49-n} = \sqrt{\frac{n}{6}}$$

$$21) r^{\frac{3}{2}} = 729$$

$$22) 625 = n^{\frac{4}{3}}$$

$$23) \left(\frac{m}{11}\right)^{\frac{1}{2}} = 3$$

$$24) (x+30)^{\frac{3}{2}} = 125$$

$$25) (25v)^{\frac{2}{3}} + 6 = 31$$

$$26) 1 + (9x)^{\frac{3}{2}} = 730$$

$$27) v^{\frac{1}{2}} = 7$$

$$28) 9 = k^{\frac{1}{2}}$$

$$29) \frac{v-4}{v} = \frac{v-2}{4v} + \frac{v-3}{v}$$

$$30) \frac{3}{v} = \frac{1}{2} + \frac{2}{v}$$