

Name : _____

Solve the Equations

L2S2

Solve.

$$1) \quad \frac{P(11, 2r + 1)}{P(11, 2r)} - 13 = -16$$

$$2) \quad \frac{P(3, 3) + C(50, 49)}{C(8, r) \times r!} = \frac{7}{P(7, r)}$$

$$3) \quad \frac{80C(2n - 1, 2)}{P(6, 2) - 4C(5, 2)}$$

$$\frac{P(8n, 8n - 6)}{C(8n, 8n - 5)}$$

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$$5) \quad P(9, n - 2) \times 3!$$

$$= \frac{C(3r + 2, 3r)}{C(6, 5) - 5}$$

Solve the Equations

Solve.

$$1) \quad \frac{P(11, 2r + 1)}{P(11, 2r)} - 13 = -16$$

$$2) \quad \frac{P(3, 3) + C(50, 49)}{C(8, r) \times r!} = \frac{7}{P(7, r)}$$

$$r = 4$$

$$3) \quad \frac{80C(2n - 1, 2)}{P(6, 2) - 4C(5, 2)}$$

$$\frac{P(8n, 8n - 6)}{C(8n, 8n - 5)}$$

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$$n = 2$$

$$5) \quad P(9, n - 2) \times 3!$$

$$= \frac{C(3r + 2, 3r)}{C(6, 5) - 5}$$

$$n = 5$$

$$r = \frac{2}{3}$$