

$$\frac{AD}{AB} = \frac{DE}{BC} = \frac{1}{12} \rightarrow \frac{S_{BDE}}{S_{BEC}} = \frac{DE \times h \times \frac{1}{12}}{BC \times h \times \frac{1}{12}} = \frac{DE}{BC}$$

$$AM \parallel BD \rightarrow AB \parallel DM$$

$$AD \parallel BM$$

$$BM = MK = 3, DC = 9 \rightarrow DK + KC \rightarrow \frac{MK}{DK} = \frac{1}{3} \times \frac{3}{9} = \frac{1}{9}$$

$$\frac{m}{r} = \frac{n}{r/A} \rightarrow \frac{rE}{r/A} = \frac{9/4}{r/A} \rightarrow DEF \sim ABC$$

$$BN = MB = 3$$

$$AD = DC = BA = CB = 9$$

$$AFM \sim BMC \rightarrow \frac{AF}{BM} = \frac{FM}{MC} = \frac{AD}{DC}$$

$$FE = \frac{12}{E}$$

$$S = \frac{12}{E} \times \frac{\sqrt{12+m^2}}{F} \times \frac{1}{F} = \frac{12}{F^2}$$

$$E = E \rightarrow AED \sim AEC \rightarrow \frac{EC}{AE} = \frac{AE}{ED} = \frac{AC}{AD}$$

$$A_1 = C_1$$

$$100 + 10n = 121 + m^2 \rightarrow m^2 - 10n + 100 = 0$$

$$m = 10$$

$$A = C_1 \rightarrow ABC \sim DEC$$

$$D = C$$

$$BC = \frac{r \cdot \sqrt{12}}{12}$$

$$EF = DE \times FC \rightarrow 14 = 12 \times FC \rightarrow FC = \frac{14}{12}$$

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$$(E\sqrt{r})^r + n^r = (14)^r$$

5) 11.00

$$\sqrt{n^r + n^r} = n\sqrt{r} \quad n = \frac{1}{r} \sqrt{r(12n) + r(12n) - 12n} = E\sqrt{r}$$

13.00

$$E + (E - n)^r = n^r \quad \frac{h_r}{h_1} = \frac{\sqrt{A}}{r} \rightarrow h_r = \sqrt{A} h_1$$

14.00

$$n^r + 14 - nm + E = n^r \rightarrow r_0 = 1n \rightarrow n = \frac{1}{r}$$

15.00

$$E + 14 = r_0 \quad S_{ABE} \rightarrow r\sqrt{A} - (10\sqrt{A} - r_0)$$

16.00

$$11 + 9 = 9 \quad BC = 9 \quad AC = r \rightarrow AB = \sqrt{r_0} \quad 9 - 0.19 = 1.1 = BE$$

17.00

$$9 = m \times \sqrt{r_0} \rightarrow m = \frac{r\sqrt{r_0}}{10} \rightarrow \left(\frac{r\sqrt{r_0}}{10}\right)^r + 10^r = 9$$

18.00

$$y^r + \frac{9}{100} = 9 \rightarrow y^r = \frac{11}{10} \rightarrow \frac{r\sqrt{r_0}}{10} = \frac{r\sqrt{r_0}}{10} \times \frac{9\sqrt{r_0}}{10}$$

19.00

$$1 \times DE \rightarrow DE = r, \quad AC^r = AD \times AB \rightarrow 9 = AD \times \sqrt{r_0}$$

20.00

$$AD = \frac{r\sqrt{r_0}}{10} \quad CD = 9 \times 9 = \frac{9}{r_0}$$

$$r^r = 14^r + 12^r = 144 + 128 = 272$$

10

$$144 = n(r_0) \rightarrow n = \sqrt{12} \rightarrow r_0 - \sqrt{12} = 12$$

$$\frac{9\sqrt{r_0}}{r_0} = \frac{DE}{12} \rightarrow DE = 5\sqrt{r_0}$$

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