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If $x = 2\sqrt{3y}$ and $y = 2\sqrt{5}$, what is the value of x^4 ?

- A) 960
- B) 1,440
- C) 2,880
- D) 5,760

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A line in the xy -plane passes through the point $(3, 1)$ and has a slope of -2 . Which of the following points lies on the line?

- A) $(-1, 3)$
- B) $(0, -2)$
- C) $(1, -3)$
- D) $(1, 5)$

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If $y < 0$, which of the following is equivalent

to $\frac{2}{\frac{1}{y-1} + \frac{1}{y-5}}$?

- A) $\frac{4y - 12}{y^2 - 6y + 5}$
- B) $\frac{y^2 - 6y + 5}{y - 3}$

C) $4y - 12$

D) $2y^2 - 12y + 10$

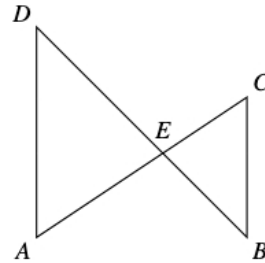


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If $2x - y = 2$, what is the value of $\frac{9^x}{3^y}$?

- A) 3
- B) 9
- C) 27
- D) 81

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In the figure above, the lengths of AD , BC , and BD are 300, 200, and 425, respectively. Segments AC and BD intersect at E , and segments AD and BC are parallel. What is the length of DE ?

- A) 170
- B) 212.5
- C) 255
- D) 275