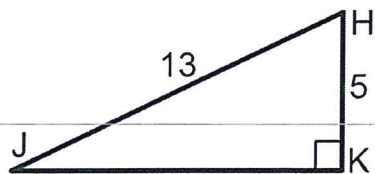


Bellwork Alg 2B Tuesday, January 30, 2018

Use $\triangle HJK$ to find each trigonometric ratio as a fraction.



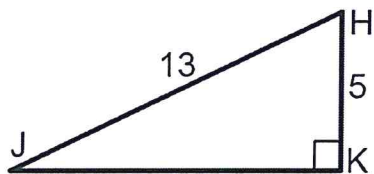
1. $\tan J$
2. $\cos H$
3. $\tan H$
4. $\sin J$
5. $\sin H$

6. If $\frac{\sqrt{72} - \sqrt{32}}{2} = 2^a$, what is the value of a ?

- A) 2 B) $\frac{1}{2}$ C) $-\frac{1}{2}$ D) $-\frac{3}{2}$

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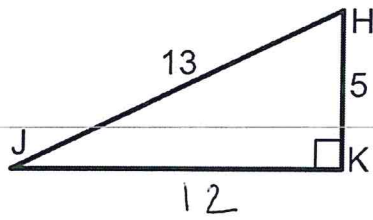
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Answers



1st: Find JK

$$5^2 + x^2 = 13^2$$

$$25 + x^2 = 169$$

$$x^2 = 144$$

$$x = 12$$

1. Tan J

$$= \frac{5}{12}$$

2. Cos H

$$= \frac{5}{13}$$

3. Tan H

$$= \frac{12}{5}$$

4. Sin J

$$= \frac{5}{13}$$

5. Sin H

$$\frac{12}{13}$$

$$\sin J = \cos H$$

6. If $\frac{\sqrt{72} - \sqrt{32}}{2} = 2^a$, what is the value of a ?

A) 2

B) $\frac{1}{2}$

C) $-\frac{1}{2}$

D) $-\frac{3}{2}$

$$\frac{\sqrt{72} - \sqrt{32}}{2} = \frac{\sqrt{36 \cdot 2} - \sqrt{16 \cdot 2}}{2} = \frac{6\sqrt{2} - 4\sqrt{2}}{2}$$

$$= \frac{2\sqrt{2}}{2}$$

$$= \sqrt{2}$$

$$= 2^{1/2}$$