

PRACTICE 1: CLEP PRECALCULUS EXAM**Course name:** Precalculus CLEP Precalculus**Professor name:** Homeschool Studies**College name:** Homeschool Studies**Course code:****Section code:****NOTE:** This is an abbreviated, print sample of an online test.

Questions answered online are graded automatically with solution detail and step-by-step feedback.

Directions: Here we go. You've studied, you feel confident and ready to give a Practice Precalculus CLEP Exam a try!

The actual Precalculus CLEP Exam is administered on a computer, contains approximately 48 questions, and is limited to 90 minutes.

This Practice Precalculus CLEP Exam also contains 48 questions, but there is no time limit.

You may pause the Practice Precalculus CLEP Exam as often as you need to. Click the "Resume" button to pick up where you left off.

We recommend that you work out the problems on paper and then enter your answers online when you're ready.

Once you're done, review the "Guide" for customized feedback.

Need Help? No Problem! Contact support@thinkwell.com with questions.

Question: 1

Simplify.

$$\frac{(4^2 x^5 y^4)^4}{(4^5 x^{-2} y^5)^{-5}}$$

Assume that all variables represent nonzero numbers.

- $\frac{x^{30}}{4^{17} y^9}$
- $\frac{4^{17} y^9}{x^{30}}$
- $4^{17} x^{30} y^9$
- $\frac{4^{17} y^{41}}{x^{30}}$
- None of the above

Question: 2

Simplify.

$$64^{\frac{4}{3}}$$

Question: 3

Subtract the following polynomials:

$$[6a^4 + (3a - 6) - a^2] - [8a - (6a^3 - 2a^2 - 5a) - 3(a - 6)]$$

- $6a^4 + 6a^3 - 3a^2 - 7a - 24$
 $6a^4 + 6a^3 - a^2 - 7a - 24$
 $6a^3 - 3a^2 - 7a - 24$
 $6a^4 - 6a^3 - 3a^2 - 7a - 24$
 None of the above

Question: 4

Simplify. Assume that all variables result in nonzero denominators.

$$\left(\frac{42x}{x^2 - 5x + 6} + \frac{14x^2 - 21x}{2x^2 - 7x + 6} \right) - \frac{6}{x^2 - 9}$$

- $\frac{6x - 3}{x^2 - 9}$
 0
 $\frac{294x^3 + 116x^2 + 24x - 24}{(x - 2)(x^2 - 9)}$
 $\frac{6x + 1}{x^2 - 9}$
 None of the above

Question: 5Solve for x .

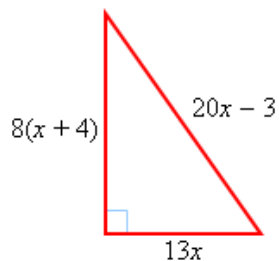
$$\frac{4}{x - 4} = \frac{6}{x + 4} - \frac{5x}{x^2 - 16}$$

Enter only a number. Do NOT enter an equation. If the number is not an integer, enter it as a fraction in simplest form. If there is no solution, "no solution" should be entered.

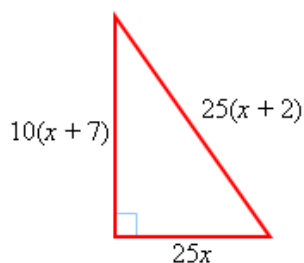
Question: 6

A small rock sits on the edge of a tall building. A strong wind blows the rock off the edge. The distance, in feet, between the rock and the ground t seconds after the rock leaves the edge is given by $d = -16t^2 - 2t + 955$. How long after the rock leaves the edge is it 460 feet from the ground?

Enter only a number. Do NOT enter an equation. If the number is not an integer, enter it as a decimal where the last digit is not zero and there is a zero before the decimal point for values between -1 and 1 . For example, if the answer is $.2$, 0.2 should be entered.

Question: 7Solve for x in the right triangle.

Enter only a number or numbers. Do NOT enter an equation. If a number is not an integer, enter it as a fraction in simplest form. Enter multiple answers in ascending order, separated by commas, and do not include any grouping symbols. If there is no real solution, "no real solution" should be entered.

Question: 8Solve for x in the right triangle.

Enter only a number or numbers. Do NOT enter an equation. If a number is not an integer, enter it as a fraction in simplest form. Enter multiple answers in ascending order, separated by commas, and do not include any grouping symbols. If there is no real solution, "no real solution" should be entered.

Question: 9Solve for x .

$$\frac{8x+5}{3x-1} \geq 2 - \frac{2x}{3x-1}$$

- $\left(-\infty, -\frac{7}{4}\right] \cup \left[\frac{1}{3}, \infty\right)$
 $\left[-2, \frac{1}{3}\right)$
 $\left(-\infty, -\frac{7}{4}\right] \cup \left[\frac{1}{3}, \infty\right)$
 $\left(-\infty, -\frac{3}{4}\right] \cup \left[\frac{1}{3}, \infty\right)$
 None of the above