

Precalculus 11 – Midterm Flashback #1

1. Evaluate $\left(\frac{25}{16}\right)^{-3/2}$
2. Solve $\sqrt{4x-1} + 2 = 10$. What are the restrictions on x ?
3. Factor: $6x^2 + 11x - 21$
4. Simplify: $\frac{(8a^{-3}b)^2}{(4a^5b^{-3})^{-2}}$
5. Simplify: $\sqrt{162}$
6. Rationalize: $\frac{6}{1+\sqrt{2}}$
7. Simplify: $(3\sqrt{2} - \sqrt{5})^2 + \sqrt{2}(\sqrt{2} + 3\sqrt{5})$
8. Solve: $x^2 + 8x - 10 = 9x$
9. All integers are whole numbers. True or false. Explain how you know.
10. What is the discriminant for the equation $2x^2 - 5x = 9$? What does it tell you about the roots for this equation?

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Answers will be found on Mrs. Burton's Edublog >flashback page