Algebra II Practice Test

Objective: 1.1a

- 1. Which is equivalent to $49^{\frac{3}{2}}$?
 - A 21
 - B 98
 - C 294
 - D 343
- 2. Which expression is another way to write $\sqrt[3]{125x^4}$?
 - A $5x^{\frac{3}{4}}$
 - B $5x^{\frac{4}{3}}$
 - C $25x^{\frac{3}{4}}$
 - D $25x^{\frac{4}{3}}$
- 3. If x and y are real numbers, what is the simplified radical form

of
$$(x^2y^5)^{\frac{1}{5}}$$
?

- A $y\sqrt[5]{x^2}$
- B $y\sqrt{x^5}$
- C $|y|\sqrt[5]{x^2}$
- D $|y|\sqrt{x^5}$

Objective 1.1b

- 4. What is the simplified expression of $\sqrt{\frac{36x^8}{4x^6}}$?
 - **A** 3*x*
 - B 9*x*
 - C $3x^2$
 - $D 9x^2$
- 5. What is the simplified form of $(2\sqrt{5}+3)(\sqrt{5}-1)$?
 - A $\sqrt{5} 3$
 - B $\sqrt{5} + 7$
 - C $2\sqrt{5}-3$
 - D $2\sqrt{5} + 7$