Radicals & Conjugates

1. Express each of the following as a rational number or in simplest radical form. Assume that the symbols a, b, and x represent positive numbers.

a) $\sqrt{36}$

b) $\sqrt{72}$

c) $\sqrt{18}$

d) $\sqrt{9x^3}$

e) $\sqrt{27x^2}$

f) $\sqrt[3]{16}$

g) $\sqrt[3]{24a}$

h) $\sqrt{9a^2 + 9b^2}$

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Radicals & Conjugates

1. Express each of the following as a rational number or in simplest radical form. Assume that the symbols a, b, and x represent positive numbers.

a) $\sqrt{36}$

6

b) $\sqrt{72}$

$6\sqrt{2}$

c) $\sqrt{18}$

$3\sqrt{2}$

d) $\sqrt{9x^3}$

$3x\sqrt{x}$

e) $\sqrt{27x^2}$

$3x\sqrt{3}$

f) $\sqrt[3]{16}$

$2\sqrt[3]{2}$

g) $\sqrt[3]{24a}$

$2\sqrt[3]{3a}$

h) $\sqrt{9a^2 + 9b^2}$

$3\sqrt{a^2 + b^2}$