

**Math 31**

Name \_\_\_\_\_

**Factoring and Radicals.**

Date \_\_\_\_\_

1. Factor completely.

a)  $x^2 - 3x - 40$

b)  $4x^2 - 15x + 14$

[8]

c)  $2x^4 + 16x$

d)  $3(x^2 + 4)^{1/2} - 5(x^2 + 4)^{-1/2}$

2. Rationalize

a)  $\frac{\sqrt{x+4} - 2}{x}$

[4]

b)  $\frac{x-1}{\frac{1}{\sqrt{x}} - 1}$