

**Algebra 2**  
**5.5 Homework #1**

**Name:** \_\_\_\_\_

**Factor completely.**

<b>1.</b> $7x^3 - 14x$	<b>2.</b> $9x^3 - 36x^2$
<b>3.</b> $x^4 + x^2 - 30$	<b>4.</b> $a^2 + 7a - 18$
<b>5.</b> $2ak - 6a + k - 3$	<b>6.</b> $b^2 + 8b + 7$
<b>7.</b> $n^3 - 125$	<b>8.</b> $m^4 - 81$
<b>9.</b> $8c^3 - 27d^3$	<b>10.</b> $2x^4 + 12x^2 + 10$
<b>11.</b> $x^4 - 4x^2 - 12$	<b>12.</b> $21 - 7t + 3r - rt$

**13.**  $x^2 - xy + 2x - 2y$

**14.**  $4ab + 2a + 6b + 3$

**15.**  $6n^2 - 11n - 2$

**16.**  $6x^2 + 7x - 3$

**17.**  $6p^2 - 17p - 45$

**18.**  $21x^3 - 9x^2y - 24xy^2$

**19.**  $3x^3y^2 - 2x^2y - 5xy$

**20.**  $2x^4 + 6x^2 - 56$

