Pg 414-415 #1-6, 7-19 odd, 21-24, & 27

1. -3^4 is the negative of 3^4, so the base is 3, the exponent is 4, and its value is -81. $(-3)^4$ has a base of -3, an exponent of 4, and a value of 81.
2. 5^3, The power is 5; The power is 5^3. Five is the base.
3. 3^4
4. $(-6)^2$
5. $\left(-\frac{1}{2}\right)^3$
6. $\left(\frac{1}{3}\right)^3$
7. $\pi^3 x^4$
9. $(6.4)^4 b^3$
11. 25
13. 1
15. $\frac{1}{144}$
17. The negative sign is not part of the base; $-6^2 = -(6 \cdot 6) = -36$.
19. $-\left(\frac{1}{4}\right)^4$
21. 29

22. 65

23. 5

24. 5

27.

h	1	2	3	4	5
$2^h - 1$	1	3	7	15	31
2^{h-1}	1	2	4	8	16

$2^h - 1$; The option $2^h - 1$ pays you more money when $h > 1$.