



# 4.1-4.2 MULTIPLICATION AND DIVISION WITH EXPONENTS

# Properties of Exponents

1.  $a^r \cdot a^s = a^{r+s}$
2.  $(a^r)^s = a^{rs}$
3.  $(ab)^r = a^r b^r$
4.  $a^{-r} = 1/a^r$
5.  $(a/b)^r = a^r/b^r$
6.  $a^r/b^s = a^{r-s}$



# Examples

See page 282

#2-22 even

