

# ORDER OF OPERATIONS WITH POWERS

"BEDMAS"

B - BRACKETS - SOLVE ANY EXPRESSIONS  
WITH BRACKETS FIRST

E - EXPONENTS - SOLVE ANY POWERS  
SECOND

D/M - DIVIDE OR MULTIPLY IN ORDER  
FROM LEFT TO RIGHT 3rd

A/S - ADD OR SUBTRACT IN ORDER

FROM LEFT TO RIGHT + 4<sup>th</sup>

EXAMPLES: → 4 · 4

→ 2 · 2 · 2 · 2 · 2

1)  $4^2 + 2^5$

EXPONENTS

$16 + 32$

ADD

48

EVEN EXPONENT WITH NEG. BASE → + ANSWER

2)  $(3 - 5)^4$   
 $(-2)^4$

BRACKET

EXPONENT

16

SUBTRACT (NO BRACKETS)

$$3) \quad (2)(5) - 3$$

EXPONENT

$$(2)(5) - 27$$

MULTIPLY

$$10 - 27$$

SUBTRACT

$$-17$$

$$4) \quad [-4(-2)]^3 - 2(10)^2$$

BRACKETS

$$[-4(-8)]^2 - 2(10)^2$$

EXPONENT

MULTIPLY

SUBTRACT

$$[32 - 20]^2$$

- SUBTRACT

$$(12)^2$$

EXPONENT

144

SUBTRACT

$$5) -82 \div [4 (3 - 7)]$$

BRACKETS

BRACKET

$$-82 \div [4 (3 - 1)]$$

EXPONENTS

SUBTRACT

$$-82 \div [4 (2)]$$

MULTIPLY

$$-82 \div [8]$$

EXPONENT

$$\begin{array}{r} -64 \div 8 \\ -8 \end{array}$$

DIVIDE

- ① FINISH COURSE BY # 4 — HAND IN
- ② ORDER OF OPERATIONS w/s  
(DO 10 QUESTIONS)  
=