NAME:_____

1. 010820b, P.I. A2.A.36
What is the coefficient of the fifth term in the expansion of $(x+1)^8$?

[A] 56 [B] 8 [C] 70 [D] 28

2. 080208b, P.I. A2.A.36
What is the *last* term in the expansion of $(x+2y)^5$?

[A] $2y^5$ [B] y^5 [C] $32y^5$ [D] $10y^5$

3. 080412b, P.I. A2.A.36
What is the middle term in the expansion of $(x+y)^4$?

[A] x^2y^2 [B] $6x^2y^2$

[C] $4x^2y^2$ [D] $2x^2y^2$

4. 060619b, P.I. A2.A.36
What is the fourth term in the expansion of $(y-1)^7$?

[A] $-35y^4$ [B] $35y^3$

[C] $-35y^3$ [D] $35y^4$

5. 060916b, P.I. A2.A.36
What is the third term in the expansion of $(2x-3)^5$?

[A] $-720x^3$ [B] $1080x^3$

[C] $-1080x^2$ [D] $720x^3$

6. 080915b, P.I. A2.A.36
What is the third term in the expansion of $(3x-2)^5$?

[A] $540x^3$ [B] $270x^3$

[C] $1{,}080x^2$ [D] $1{,}080x^3$

7. 010726b, P.I. A2.A.36
What is the fourth term in the expansion of $(2x-y)^5$?

8. 060517b, P.I. A2.A.36
What is the third term in the expansion of $(\cos x+3)^5$?

[A] $90\cos^3 x$ [B] $270\cos^2 x$

[C] $90\cos^2 x$ [D] $60\cos^3 x$

[1] C

[2] C

[3] B

[4] A

[5] D

[6] D

[2] $-40x^2y^3$, and appropriate work is shown.
[1] Appropriate work is shown, but one computational error is made.
or [1] Appropriate work is shown, but one conceptual error is made.
or [1] $-40x^2y^3$, but no work is shown.
[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

[7]

[8] A